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MS SERIES.

G.O. No.	2657
Dated	19-10-43

[Despatch Abstract.]

Agriculture - Experiment - Dry Farming Research - Trial in cultivated land at Jeladarai - Report ~~received~~.

Ex Cell Bush & AI Secheron

27544

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Agriculture Research - Dry farming
Trial on selection land at Tola
Devasi - Scheme - Sanctioned
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41 14

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Government of Madras

PUBLIC (SERVICES) DEPARTMENT

G.O. No. 25, 6th January 1939

Public Services—Provincial Services—Applications for appointment—Fees—Concession to Scheduled Class candidates—General rules—Amended.

Order—No. 25, Public (Services), dated 6th January 1939.

The following notification will be published in the *Fort St. George Gazette* :—

NOTIFICATION.

In exercise of the powers conferred by paragraph (*b*) of sub-section (2) of section 241 of the Government of India Act, 1935, His Excellency the Governor is hereby pleased to make the following amendment to the general rules for the Provincial Services published with Public (Services) Department Notification No. 91, dated the 25th September 1933, at pages 1570 to 1579 of Part I of the *Fort St. George Gazette*, dated the 3rd October 1933, as subsequently amended :—

AMENDMENT.

To clause (ii) of sub-rule (*b*) of rule 3 of the said rules, the following proviso shall be added, namely :—

"Provided that this clause shall not apply for a period of three years commencing on and from the 1st January 1939 to a candidate belonging to a Scheduled Class who has passed the Intermediate Examination in Arts of the University of Madras or of the Andhra or Annamalai University or who has taken a degree of any of the said Universities, whatever may be the post or service with reference to which the application is made."

(By order of His Excellency the Governor)

G. T. BOAG,
Chief Secretary.

To the Departments of Secretariat (all sections).
,, all Heads of Departments (including Collectors and District Judges).
,, the Accountant-General, Madras.
,, the Superintendent, Government Press for publication of the notification in the *Fort St. George Gazette* and issue of correction slip to Volume I of the Madras Services Manual.

55/175

Dev. Dept

G.M. 27544 - dI/43-1 dt 16-9-43

Sub: Agriculture - Dry farming research - Trial in cultivator's lands at Toladerasi - Scheme - Report -

Ref G.O. T2/Ms. dt 15.1.41.

The Director of Agriculture is requested to report on the results achieved in the Scheme sanctioned in the G.O. cited when the report called for in the letter of even number dated 13.9.43 may be expected

~~sanctioned in the G.O. cited~~ ~~in the letter of even number dated 13.9.43~~ ~~referred to above.~~ 27/16/9/43

13.9.43 dd 15.5.43

To The D.A. dt 16/9

R 1.10.43

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AMENDMENTS.

I

In rule 5 of the said rules—

(1) in clause (ii) of sub-rule (*a*), for the words "in consultation with them," the words "in consultation with it" shall be substituted; and

(2) for clause (ii) of sub-rule (*c*), the following clause shall be substituted, namely:—

"(ii) to the appointment to a post included in a service of a candidate belonging to any of the Scheduled Classes who holds a degree of the University of Madras or any other degree recognized as being equivalent to a degree of the said University,

(A) by the Commission in cases where the appointment has to be made in consultation with it, and

(B) by the Provincial Government or by the appointing authority with the approval of the Provincial Government, in other cases,

if the degree he holds is not lower than the degree, if any, prescribed in the special rules for appointment to such post and if he is otherwise qualified for appointment."

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II

In sub-clause (1) of clause (ii) of sub-rule (*a*) of rule 60 of the said rules, for the words "in consultation with them," the words "in consultation with it" shall be substituted.

(By order of His Excellency the Governor)

G. T. BOAG,
Chief Secretary.

To the Madras Public Service Commission (with C.L.).
,, all Heads of Departments including Collectors and District Judges.
,, the Legal Department.
,, other Departments of the Secretariat (all sections).
,, the Superintendent, Government Press, for publication in the *Fort St. George Gazette* and issue of correction slip to Volume I of the Madras Services Manual.
,, the Accountant-General, Madras.

Forwarded to the

(By order)

Superintendent,
Public (Services) Department.

A.I. Agricultural Department. 51

From
P.H. Rama Reddi Esq., I.A.S.,
Director of Agriculture,
Madras.

To the Secretary to Government, Development Department, FORT ST. GEORGE.

No. D.Dis. D. 762/43 dated 10th October 1943.

Sir,

Sub: AGRICULTURE - Dry Farming research - Trials on cultivators' lands at Joladarasi (Bellary district).

Ref: (1) G.O. No. 72 Ms. Development dated 15th January 1941.
(2) Government Memorandum No. 27544-AI/43-1 dated the 16th September 1943.

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A report on the results of the trials of the promising items of improved dry farming methods carried out in the Joladarasi village, Bellary Taluk is enclosed.

Your obedient servant,

for DIRECTOR OF AGRICULTURE.

N.R.5-10.

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Subj. Agriculture - Experiments - Dry Farming Research - Trial in Agriculture land at Tolgadarsi - Robertsonpet - Recorded

Read appn. Govt 72 (Rev) Dept dt 15-1-41 - Copy of (A)

Read proceedings of the D.A. cum D.M.O. Dindigul 716/43 dt 10-10-43 (J.I.J) Location

Order no 20657 dated 19 (I) -10-43

Recorded

To the D.A

REPORT ON LARGE SCALE TRIALS OF IMPROVED DRY FARMING PRACTICES IN CULTIVATORS' FIELDS IN THE BELLARY DISTRICT.

With the financial help of the Imperial Council of Agricultural Research, investigations were started in 1934 at the Agricultural Research Station, Hagari for finding out suitable methods of preventing soil erosion and better conserving moisture in the black soils of the Ceded districts. The results obtained in the next seven years having shown that the two objects could be met by putting up at a very cheap cost, temporary bunds across the slope of fields at convenient distances, depending upon the amount of slope, to prevent the run off of water after rains, the Government of Madras sanctioned in G.O. No. Ms. 72 Development, dated 15th January 1941, a small separate scheme for verification of these results in cultivators' fields. Twenty six acres of cultivators' lands were accordingly taken on lease in 1941 at Jolagarasi, a village about 5 miles from the Hagari Agricultural Research Station and the work was commenced in the same year.

The rainfall in 1941--42 was below normal, being 16.29 inches against the normal of 21.31 inches and distributed only over 28 days. The crop growth was therefore adversely affected. The two main crops of cotton and Jonna were sown under more or less normal conditions in September and October respectively, but after sowings there were no rains of any consequence. The effect was that cotton which was benefited by the October rains did a little better than Jonna which had no rain after its sowing. A large proportion of Jonna crop of local variety therefore failed to produce any earheads, while the cotton crop yielded 33% of the normal. These adverse conditions afforded, however, a very good opportunity for testing the results obtained at the Hagari Agricultural Research Station and the results of the two crops are given below

	Local practices plus bunding.	Local practices alone.
Cotton.		
(a)	Bunding (putting up bunds about 1 ft. high by the bundforming implement after preliminary cultivation)	No bunding.
(b)	Wide spacing (spacing 36" between rows)	Local spacing (27" between rows)
Sorghum: (Jonna or Cholam).		
(a)	Bunding (as above)	No bunding.
(b)	Wide spacing (spacing 18" between rows)	Local spacing (13½" between rows)
(c)	Short duration strain M.47-3.	Local type T.1 (Long duration).

The cultural operations in the two cases were the same as any good cultivator does in black soils of Ceded districts except that small bunds were put up in one case with an implement known as bund former, designed and constructed by the Agricultural Research Engineer, Coimbatore. 17 acres of the area were bunded in addition to ordinary operations, 5 acres were not bunded but all other operations were carried out and 3 acres were left fallow for testing the effects of fallow on the next season's crop; but owing to the failure of rains in the next year [redacted] could be grown. The effects of fallow could not there- [redacted] assessed.

[redacted] detailed statement of costs of cultivation, the quantity [redacted] produce harvested and profits obtained by the

adoption -

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adoption of each pattern of cultivation mentioned above is appended. A summary of the data is presented below:

Profits obtained per acre by improved dry-farming methods in a large-scale trial at Joladarasi in 1941--42.

	Experimental area.	Control plot.
COTTON.		
1. Acre yield.	159 lb.	
2. Value of produce per acre.	Rs. 14-14-9	Rs. 8-12-1
3. Cost of cultivation	5-4-7	4-3-10
4. Profit per acre.	9-10-2	4-8-3
5. Increased profit per acre due to improvements	5-1-11	
SORGHUM.		
1. Acre yield.- Grain	170 lb.	60 lb.
Straw	641 lb.	1328 lb.
2. Value of produce per	9-12-4	Rs. 8-6-11
3. Cost of cultivation	6-8-11	" 6-14-9
4. Profit per acre.	3-3-5	1-8-2
5. Increased profit per acre due to improvements.	1-11-3	

It will be seen from the above data that in the case of cotton the extra cost of cultivation per acre due to bunding the fields was Rs. 1-0-9 (Rs. 5-4-7 minus Rs. 4-3-10). The increased profit due to the was Rs. 5-1-11 per acre (after allowing for the extra operations done) over and above what was obtained in the plot normally cultivated. The increased profits obtained appear to be low when the figures are taken by themselves, but they are fairly high considering the value of crops grown here. The total value of a cotton crop in a normal year in this tract is about Rs. 30/- per acre. In this adverse year the value of cotton obtained was a little less than Rs. 9 per acre. In other words, the adoption of bunding has resulted in an additional income equal to 58% over the unbunded. In the case of Sorghum which was adversely affected to a greater extent than cotton, the increased profits owing to the improvements came to Rs. 1-11-3 which represents an increase of 18% over the total value of the crop this year.

This large scale trial conducted in an adverse year, on cultivators' fields, has proved the profitable nature of the improved Dry Farming practices, viz., bunding, wide-spacing and the use of improved strains evolved in the Dry Farming Research done at Hagari.

In 1942--43 it was not possible to continue the trial as the season was a total failure for want of rains.

LARGE SCALE TRIALS AT JOLADARASI - ECONOMICS OF THE IMPROVEMENTS.

Particulars.	Cost of cultivation for each item per acre (Cotton).		Cost of cultivation for each item per acre (Sorghum).	
	Experimental plot. Cotton strain H.1. Sown on 4-9-1941.	Control plot.	Experimental plot. Strain M.47-3	Control plot. Strain T.1. Sown on 28-9-1941.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. Preparatory cultivation.	0 13 10	0 7 1	0 13 10	0 7 1
2. Seeds and sowing. ..	0 14 11	1 1 1	0 13 11	0 12 1
3. After cultivation ..	0 14 11	0 13 2	1 6 1	1 5 7
4. Harvesting. ..	2 8 11	1 14 6	3 7 1	4 6 0
5. Total cost of cultivation (excluding the lease amount and the watch).	5 4 7	4 3 10	6 8 11	6 14 9
Yield: Kapas	159.20 lb.	93.40 lb.	Grain 171.1 lb. Straw 641.0 "	60.20 lb. 586.40 " Earless plants. 744.00 "
Value of produce.				
Kapas at 10.67 lb. per rupee	14 14 9	8 12 1	..	..
Sorghum grain at 32 lbs. per rupee	..	..	5 5 1	1 14 1
,, straw at 144 lb. ,,	..	..	4 7 3	4 1 2
,, Jaduchoppa or earless plants at 300 lb.,,	..	..	..	2 7 8
	14 14 9	8 12 1	9 12 4	8 6 11
Profit:-	9 10 2	4 8 3	3 3 5	1 8 2

N.B.- The cost of bunding works out to Re. 0--6--9 per acre.

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N.R. 5-10.P.

Note File

Devt. Deptt.

Sub: Agriculture - Experiments - Dry farming research - Trials on cultivators land at Joladarsi.

Ref: Memo to the D.A. No.27544 AI/43-1 dated 16.9.43.
Letter from the D.A. No.D.Dis D. 762/43 dated 10.10.43.

In January 1941 Govt sanctioned a small scheme for the trial of the promising items of improved dry farming methods on an area of 25 acres of land in Joladarsi (Bellary dt.) The scheme was sanctioned for a period of two years. The D.A. was then asked to submit a report on the results achieved. His report is on pp.7 - 8 cf.

The trial was conducted only in one (1941-42) year for, in 1942-43 the season was a total failure for want of rains. Even in 1941-42 adverse natural conditions prevailed but it will be seen from the D.A.'s report that the trials were able to prove the profitable nature of the improved dry farming practices. For orders whether the report may be recorded. Subject to orders a draft order is submitted for approval on p.6 cf

[Issued as Go. No. Ms 2657 Devt. dt 19-10-43]